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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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SEP 01 2006

PATENT & TRADEMARK OFFICE

1

of

26

Application Number	10/568,649
Filing Date	February 16, 2006
First Named Inventor	Georgio Terenghi
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	TEPH 109

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CYW	3,598,122			Zaffaroni et al.	08-10-1971	
	3,598,123			Zaffaroni et al.	08-10-1971	
	3,731,683			Zaffaroni	05-08-1973	
	3,797,494			Zaffaroni	03-19-1974	
	3,982,543			Schmitt, et al.	09-28-1976	
	4,031,894			Urquhart et al.	06-28-1977	
	4,201,211			Chandrasekaran et al.	05-06-1980	
↓	4,286,592			Chandrasekaran	08-01-1981	
	4,314,557			Chandrasekaran	02-09-1982	
CYW	4,379,454			Campbell et al.	04-12-1983	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
CYW	CA	2,259,098			Meiji Seika Kaisha and Taisei Corp	07-13-1999		
	CA	2,307,637			Childrens Medical Center Corporation	05-14-1999		
	GB	2166354			Imperial Chemical	05-08-1986		
↓	DE	39 37 649			Boehringer Ingelheim Forschungsgesellschaft	05-16-1991		
	EP	0 258 781			American Cyanamid Co.	03-09-1988		
CYW	EP	0 344 704			CT Lab Farm SRL	12-06-1989		

Examiner's Signature	/Chang-Yu Wang/	Date Considered	02/02/2007
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Sheet	2	of	26	Attorney Docket Number	TEPH 109

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		Number	Kind Code ² (if known)			
CYW		4,435,180		Leeper	03-06-1984	
		4,559,222		Enscore et al.	12-17-1985	
		4,573,995		Chen et al.	03-04-1986	
		4,588,580		Gale et al.	05-13-1986	
		4,603,070		Steel et al.	07-29-1986	
		4,645,502		Gale et al.	02-24-1987	
		4,648,978		Makinen, et al.	03-10-1987	
		4,664,655		Orentreich, et al.	05-12-1987	
		4,704,282		Campbell et al.	11-03-1987	
CYW		4,711,241		Lehmann	12-08-1987	

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		Office ³	Number ⁴				
CYW		EP	0 423 484	btF Biotechnologische	04-24-1991		
		EP	0 429 403	Sigma-Tau Industrie Farmaceutiche Riunite	05-29-1991		
		EP	0 432 443	Boehringer Ingelheim	06-19-1991		
		EP	0 452 111	Takeda Chemical Industries	10-16-1991		
		EP	0 507 554	Mitsui Toatsu Chemicals, Inc.	10-07-1992		
CYW		EP	0 601 885	Takasago International Corp.	06-15-1994		

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CYW	4,758,234			Orentreich, et al.	07-19-1988	
	4,788,062			Gale et al.	11-29-1988	
	4,792,336			Hlavacek, et al.	12-20-1988	
	4,816,258			Nedberge et al.	03-28-1989	
	4,826,493			Martini, et al.	05-02-1989	
	4,849,226			Gale	07-18-1989	
	4,856,188			Sibalis	08-15-1989	
	4,880,592			Martini, et al	11-14-1989	
	4,908,027			Enscore et al.	03-13-1990	
CYW	4,910,145			Holmes, et al.	03-20-1990	

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		Office ³	Number ⁴				
CYW	EP	0 628 586		Terumo Kabushiki Kaisha	12-14-1994		
	EP	0 754 467		Astra Aktiebolag	01-22-1997		
	EP	1130043		Canon Kabushiki Kaisha	09-05-2001		
	JP	4-326932		Nippon Zeon KK	11-16-1992		
	JP	5-023189		Mitsubishi Kasei Corp.	02-02-1993		
	JP	5-194141		Mitsubishi Kasei Corp.	11-19-1993		
CYW	JP	7-275344		Nippon Zeon KK	10-24-1995		

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Sheet	4	of	26	Attorney Docket Number	TEPH 109

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		Number	Kind Code ² (if known)			
CYW		4,938,763		Dunn, et al.	07-03-1990	
		4,943,435		Baker et al.	07-24-1990	
		5,002,067		Berthelsen, et al.	03-26-1991	
		5,032,638		Wang, et al	07-16-1991	
		5,085,629		Goldberg, et al.	02-04-1992	
		5,124,371		Tokiwa, et al.	06-23-1992	
		5,128,144		Korsatko-Wabnegg, et al.	07-07-1992	
		5,204,382		Wallace, et al.	04-20-1993	
↓		5,236,431		Gogolewski, et al.	08-17-1993	
CYW		5,245,023		Peoples, et al.	09-14-1993	

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		Office ³	Number ⁴				
CYW	PCT	WO 92/18164		Delta Biotech, Ltd.	10-29-1992		
	PCT	WO 93/20134		Alza Corporation	10-14-1993		
	PCT	WO 94/02184		Medinvent	02-03-1994		
	PCT	WO 94/06886		Biopak Technology, Ltd.	03-31-1994		
↓	PCT	WO 95/03356		Mass. Inst. of Tech.	02-02-1995		
	PCT	WO 95/20614		The Procter & Gamble Co.	08-03-1995		
CYW	PCT	WO 95/20615		The Procter & Gamble Co.	08-03-1995		

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Sheet	5	of	26	Filing Date	February 16, 2006
				First Named Inventor	Georgio Terenghi
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		Number	Kind Code ² (if known)			
CYW	5,250,430			Peoples, et al.	10-05-1993	
	5,271,961			Mathiowitz, et al.	12-21-1993	
	5,278,201			Dunn, et al.	01-11-1994	
	5,278,202			Dunn, et al.	01-11-1994	
	5,278,256			Bellis	01-11-1994	
	5,292,860			Shiotani, et al.	03-08-1994	
	5,306,286			Stack, et al.	04-26-1994	
↓	5,334,698			Witholt, et al.	08-02-1994	
	5,468,253			Bezwada, et al.	11-21-1995	
CYW	5,480,394			Ishikawa	01-02-1996	

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		Office ³	Number ⁴				
CYW	PCT	WO 95/20621		The Procter & Gamble Co.	08-03-1995		
↓	PCT	WO 95/23250		The Procter & Gamble Co.	08-31-1995		
	PCT	WO 95/33874		Minnesota Mining and Manufacturing Company	12-14-1995		
	PCT	WO 96/00263		Stichting Onderzoek En Ontwikkeling Noord	01-04-1996		
↓	PCT	WO 96/08535		The Procter & Gamble Co.	03-21-1996		
CYW	PCT	WO 96/18420		Bracco Research SA	06-20-1996		

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CYW		5,480,794		Peoples, et al.	01-02-1996	
		5,489,470		Noda	02-06-1996	
		5,502,116		Noda	03-26-1996	
		5,502,158		Sinclair et al.	03-26-1996	
		5,512,669		Peoples, et al.	04-30-1996	
		5,516,565		Matsumoto	05-14-1996	
		5,534,432		Peoples, et al.	07-09-1996	
		5,536,564		Noda	07-16-1996	
		5,550,173		Hammond, et al.	08-27-1996	
CYW		5,551,954		Buscemi, et al.	09-03-1996	

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CYW		PCT	WO 96/21427		Atrix Laboratories, Inc.	07-18-1996		
		PCT	WO 96/40304		Reprogenesis, Inc.	12-19-1996		
		PCT	WO 97/07153		University of Massachusetts Medical Center	02-27-1997		
		PCT	WO 97/15681		Metabolix Inc	05-01-1997		
		PCT	WO 97/30042		Global Art Co. Ltd	08-21-1997		
CYW		PCT	WO 98/04292		Acusphere, Inc.	02-05-1998		

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CYW		5,563,239		Hubbs, et al.	10-08-1996	
		5,614,576		Rutherford et al.	03-25-1997	
		5,629,077		Turnlund, et al.	05-13-1997	
		5,625,030		Williams et al.	05-29-1997	
		5,635,215		Boschetti, et al.	06-03-1997	
		5,646,217		Hammond	07-08-1997	
		5,648,100		Boschetti, et al.	07-15-1997	
		5,670,161		Healy, et al.	09-23-1997	
		5,703,160		Dehennua et al.	12-30-1997	
CYW		5,705,187		Unger	01-06-1998	

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CYW		PCT	WO 98/39453		Monsanto Co.	09-11-1998		
		PCT	WO 98/48028		Monsanto Company	10-29-1998		
		PCT	WO 98/51812		Metabolix, Inc.	11-19-1998		
		PCT	WO 99/11196		Point Biomedical Corp.	03-11-1999		
		PCT	WO 99/14313		Metabolix Inc	03-25-1999		
		PCT	WO 99/32536		Metabolix, Inc.	07-01-1999		
CYW		PCT	WO 99/35192		Metabolix Inc.	07-15-1999		

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CYW	5,709,854			Griffiths-Cima, et al.	01-20-1998	
	5,711,933			Bichon, et al.	01-27-1998	
	5,728,752			Scopelianos, et al.	03-17-1998	
	5,753,364			Rutherford et al.	05-19-1998	
	5,753,708			Koehler et al.	05-19-1998	
	5,811,272			Snell, et al.	09-22-1998	
	5,814,071			McDevitt, et al.	09-29-1998	
	5,814,599			Mitragotri et al.	09-29-1998	
	5,824,333			Scopelianos, et al.	10-20-1998	
CYW	5,824,751			Hori et al.	10-20-1998	

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	PCT	WO 00/56376			Metabolix, Inc.	09-28-2000		
	PCT	WO 01/15671			Tepha, Inc.,	03-08-2001		
	PCT	WO 01/19361			Tepha, Inc.	03-22-2001		
CYW	PCT	WO 04/101002			Tepha, Inc.	11-25-2004		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	9	of	26	Application Number	10/568,649
				Filing Date	February 16, 2006
				First Named Inventor	Georgio Terenghi
				Group Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	TEPH 109

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CYW	5,834,582			Sinclair et al.	11-10-1998	
	5,840,331			Van Cauter, et al.	11-28-1998	
	5,842,477			Naughton, et al.	12-01-1998	
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OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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CYW		ABATE, et al., "Separation and structural characterizations of cyclic and open chain oligomers produced in the partial pyrolysis of microbial poly(hydroxyutyrate)", <i>Macromolecules</i> , 28(23):7911-1916 (1995).	
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CYW		BERGER, et al., "PHB recovery by hypochlorite digestion of non-PHB biomass", <i>Biotechnology Techniques</i> , 3(4):227-232 (1989).				
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CYW		COOKSON, "It grows on trees", <i>Financial Times</i> , p. 6 (August 12, 1992).	
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CYW		ENTHOLZNER, et al., "EEG changes during sedation with gamma-hydroxybutyric acid", <i>Anaesthesia</i> , 44:345-350 (1995).	

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CYW		FRASER, et al., "Controlled release of a GnRH agonist from a polyhydroxybutyric acid implant-reversible suppression of the menstrual cycle in the macaque", <i>Acta Endocrinol.</i> , 121:841-848 (1989).	
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CYW		GÜRSSEL, et al., "In vivo application of biodegradable controlled antibiotic release systems for the treatment of implant-related osteomyelitis," <i>Biomaterials</i> 22: 73-80 (2001).	

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CYW		HADLOCK, et al., "Ocular cell monolayers cultured on biodegradable substrates", <i>Tissue Eng.</i> , 5(3):187-96 (1999).		
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CYW		HORI, et al., "Ring-Opening Polymerization of Optically Active β -Butyrolactone Using Distannoxane Catalysts: Synthesis of High Molecular Weight Poly(3-hydroxybutyrate)", <i>Macromolecules</i> , 26:5533-34 (1993).	
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Substitute for form 1449A/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/568,649
(use as many sheets as necessary)		Filing Date	February 16, 2006
		First Named Inventor	Georgio Terenghi
		Group Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet	17	of	26
		Attorney Docket Number	TEPH 109

OTHER ART – NON PATENT LITERATURE DOCUMENTS			
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CYW		KIM and MOONEY, "Engineering smooth muscle tissue with a predefined structure", <i>J. Biomed. Mat. Res.</i> , 41(2):322-332 (1998).	
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CYW		LAFFERTY, et al., "Microbial Production of Poly- β -hydroxybutyric acid" in <u>Biotechnology</u> (H.J. Rehm and G. Reed, eds.), Verlagsgesellschaft, Weinheim, vol. 66, pp. 135-76 (1988).
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CYW		LÜTKE-EVERSLOH et al., "List of submitted abstracts", <u>The 8th International Symposium on Biological Polyesters</u> , (2000).

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CYW		MADISON and HUISMAN, "Metabolic engineering of poly(3-hydroxyalkanoates): from DNA to plastic", <i>Microbiol. Molec. Biol. Rev.</i> , 63:21-53 (1999).		
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First Named Inventor	Georgio Terenghi
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CYW		MÜLLER, et al., "Poly(hydroxyalkanoates): A Fifth Class of Physiologically Important Organic Biopolymers", <i>Angew. Chem. Int. Ed. Engl.</i> , 32: 477-502 (1993).	
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CYW		PEDRÓS-ALIO <i>et al.</i> , "The influence of poly- β -hydroxybutyrate accumulation on cell volume and buoyant density in <i>Alcaligenes eutrophus</i> ", <i>Arch. Microbiol.</i> 143:178-184 (1985).	
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CYW		RENSTAD, <i>et al.</i> , "The influence of processing induced differences in molecular structure on the biological and non-biological degradation of poly (3-hydroxybutyrate-co-3-hydroxyvalerate), P(3-HB-co-3-HV)", <i>Polymer Degradation and Stability</i> , 63:201-211 (1999).	

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CYW		REYNOLDS, <u>Martindale: The Extra Pharmacopeia</u> , p. 1264, (Thirty First Edition, Royal Pharmaceutical Society, London, 1997).		
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↓		SHINOKA & MAYER, "New frontiers in tissue engineering: tissue engineered heart valves" in <u>Synthetic Bioabsorbable Polymer Scaffolds</u> (Atala & Mooney, eds.) pp. 187-198 Birkhäuser Boston, 1997.		
CYW		SHINOKA, et al., "Creation of viable pulmonary artery autografts through tissue engineering", <i>J. Thorac. Cardiovasc. Surg.</i> , 115(3):536-46 (1998).		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/568,649
(use as many sheets as necessary)				Filing Date	February 16, 2006
				First Named Inventor	Georgio Terenghi
				Group Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
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OTHER ART -- NON PATENT LITERATURE DOCUMENTS						T ²
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				T ²
CYW		SHINOKA, et al., "Tissue engineering heart valves: valve leaflet replacement study in a lamb model" <i>Ann. Thorac. Surg.</i> , 60(Suppl 3):S513-16 (1995).				
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CYW		TAKAGI et al., "Biosynthesis of polyhydroxyalkanoate with a thiophenoxy side group obtained from <i>Pseudomonas putida</i> ", <i>Macromolecules</i> , 32: 8315-8318 (1999).	
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CYW		UNVERDORBEN, et al., "Polyhydroxybutyrate (PHB) Biodegradable Stent-Experience in the Rabbit", <i>American J. Cardiol.</i> , TCT Abstracts/Oral, p.5S:TCT-11 (Oct. 1998).		
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